



U.S. Department  
of Transportation  
**Research and  
Special Programs  
Administration**

400 Seventh St., S.W.  
Washington, D.C. 20590

JUL 24 2002

Mr. Ron Snyder  
Zambelli Internationale  
Fireworks Mfg. Co. Inc.  
Safety Office  
RD #1 Box 270 A  
Edinburg, PA 16116

Ref. No. 02-0044

Dear Mr. Snyder:

This responds to your letter regarding the requirements in § 177.834(g) to secure hazardous materials packages against movement when transported by motor vehicle under the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180). You ask whether packages of Fireworks, Division 1.3G, that are overpacked would satisfy the prevention of motion requirements under § 177.834(g). In addition, you ask whether the overpack is required to be secured within the motor vehicle.

The requirements in § 177.834(a) and (g) are met when the packages of hazardous materials are secured in a manner that precludes their movement within the transport vehicle, and between the packages themselves, under conditions normally incident to transportation. These conditions most often include vehicle starting, stopping, cornering, accident avoidance, and varied road conditions. If the packages are overpacked, the overpack itself must also be secured within the transport vehicle.

Specific methods for securing packages in a motor vehicle are not defined in the HMR. However, general requirements which address protection of shifting cargo are found in the Federal Motor Carrier Safety Regulations (49 CFR Parts 300-399), specifically under §§ 393.100 to 393.106. These requirements allow varied methods of securement, such as blocking with other freight, banding or use of tie-downs or load-locks.

I trust this satisfies your inquiry. Please contact us if we can be of further assistance.

Sincerely,

Hattie L. Mitchell  
Chief, Regulatory Review and Reinvention  
Office of Hazardous Materials Standards



02-0044

177.834

**ZAMBELLI INTERNATIONALE  
FIREWORKS MFG. CO. INC.  
SAFETY OFFICE  
RD#1 BOX 270 A  
EDINBURG, PENNA. 16116  
TELEPHONE NO. 1-800-797-6235  
FAX # (724) 652-1456**

*Stevens  
§177.834(g)  
Loading/Unloading  
02-0044*

**DATE: 02-05-02**

**TO: MR. EDWARD T. MAZZULLO  
DIRECTOR, OFFICE OF HAZ. MAT. STANDARDS**

**FROM: RON SNYDER**

**SUBJECT: INTERPRETATION OF CFR 177.834G**

**WE WOULD LIKE AN INTERPRETATION OF THIS SECTION REGARDING FIREWORK 1.3G IN PGII PACKAGING. IF THE FIREWORKS ARE ALONE WITHOUT EQUIPMENT IN A TRUCK MEETING ALL OTHER REQUIREMENTS, THEN WHAT OTHER SECUREMENT OF THE BOXES IN A TRUCK IS REQUIRED? DO THE BOXES NEED STRAPPED DOWN OR OTHER WISE SECURED INSIDE THE TRUCK?**

**WE FEEL THAT BECAUSE THE FIREWORKS ARE PACKED IN INDIVIDUAL BOXES; AND THEN THESE BOXES ARE PLACED INSIDE ANOTHER BOX THAT THIS WILL MEET THE REQUIREMENTS FOR PREVENTION OF MOTION, BUT WE ARE AFRAID OF BEING WRONG AND WOULD LIKE AN INTERPRETATION OF THIS.**

**IS THE MERE MOTION OF ONE BOX AGAINST ANOTHER A VIOLATION OF THIS LAW?**